



## **COMMONWEALTH of VIRGINIA**

### ***Department of Health*** ***DIVISION OF SHELLFISH SANITATION***

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#### **Lynnhaven Bay Growing Area # 070 Shoreline Sanitary Survey City of Virginia Beach**

**Date:** 30 July 2007

**Survey Period:** June 19, 2007 to June 26, 2007

**Total Number of Properties Surveyed:** 21

**Surveyed by:** H. R. Barker, Jr

#### **SECTION A: GENERAL**

This survey area extends from Reference Point 71 on the western bank of Lynnhaven Inlet at the Lesner Bridge to Reference Point 72 at the bridge near the end of Inlet Road at the southern mouth of Long Creek, including the Lynnhaven River shoreline between those two points Crab Creek, Please House Creek, Western Branch of the Lynnhaven River (Bayville Creek, Thoroughgood Cove, Witch Duck Bay, Thurston Branch of Thalia Creek, Buchanan Creek, Hebden Cove); Lynnhaven Bay (Keeling Cove, Dix Creek, Poorhouse Cove); Eastern Branch of Lynnhaven River (Pinetree Branch, London Bridge Creek, Wolfsnare Creek, Brown Cove, Great Neck Lake), Brock Cove, Keeling Drain, and all their tributaries.

The topography of the area varies from 5' or less along the shoreline to a maximum of 25' near the outer edge of the survey boundary. The population density is high throughout most of the primarily sewered area. The economy is based on service oriented businesses, tourism, and nearby military installations. Many subdivisions of Virginia Beach lie within the survey boundaries. Development is slowing due to the lack of available acreage. The subdividing of old existing farms and old family lots provides for the majority of new building. Commercial development is limited to the major thoroughfares, all of which are sewered.

The City of Virginia Beach has continued its ongoing sewerage of the survey area. The last remaining area of onsite sewage disposal systems, located in the Little Neck subdivision, has been sewered since the previous survey (conducted in 2000). The pipe laying was completed in July of 2006. Properties with available sewer are required to have connection permits in their possession by July 28, 2007. Twenty properties designated as flag lots which would require individual lift stations to pump to the main lines were not required to connect to the sewerage at this time and were considered as "sewer not available". However, at the first failure of a system the owner would be required to connect to the sewer and provide a lift station. Four of those flag lot residences have connected at this time.

There are no direct sewage treatment discharges located within the survey area. All sewerage areas are connected to the Chesapeake-Elizabeth sewage treatment works (STW), with discharge into the Chesapeake Bay, (DSS Growing Area # 68); or connected to the Atlantic STW, with discharge into the Atlantic Ocean, (DSS Growing Area # 73).

Meteorological data indicated that 1.74" of precipitation fell June 21-26; the length of the survey period.

One large and significant property, *Oceana Naval Air Station* (NAS), lies just outside the shoreline survey boundary. Oceana NAS operates with VPDES Permit # VA0005266. The runoff water permit has 16 outfalls, 6 of which discharge into small streams that eventually enter the survey area. These are outfalls 002 and 003 into London Bridge Creek; outfalls 005 and 014 into Wolfsnare Creek; and outfalls 006 and 008 into Great Neck Creek. All these discharges eventually enter the Eastern Branch of the Lynnhaven system and eventually Chesapeake Bay and Atlantic Ocean. Marine activity within this survey site is seasonal. During the summer months the Lynnhaven System is extremely busy with pleasure boats, fishing vessels, and crabbers. The system itself is busy as well as the entrance to the bay and ocean. During the colder months all aspects of marine activities are reduced except for the large striped bass fishery; both sport and commercial. The boating activity does not show heavily on this survey because all the Lynnhaven system marinas are outside the survey area. Also many vessels are kept behind private residences. This survey area is home to thousands of transient and resident waterfowl, small wild mammals, and a great many dogs. The presence of these animals adds to the waste entering the waterways of the survey area.

Copies of bacteriological, hydrographical, and shellfish closure data are available at the area field office for review. Copies of the current condemnation notices and maps are available via the internet at <http://www.vdh.virginia.gov/oehs/shellfish/>.

This report lists only those properties that have sanitary deficiencies or have other environmental significance. "DIRECT" indicates that the significant activity or deficiency has a direct impact on the shellfish growing area waters. Individual field forms with full information on properties listed in this report are on file in the Richmond Office of the Division of Shellfish Sanitation and are available for reference until superseded by a subsequent survey of the area. Data in the report are also made available to local health departments and other agencies to address items that may be out of compliance with their regulatory programs.

## **SECTION B: SEWAGE POLLUTION SOURCES**

### **SEWAGE TREATMENT WORKS**

-None-

### **ONSITE SEWAGE DEFICIENCIES**

-None-

### **POTENTIAL POLLUTION**

-None-

## **SECTION C: NON-SEWAGE WASTE SITES**

### **INDUSTRIAL WASTES**

-None-

### **SOLID WASTE DUMPSITES**

-None-

## **SECTION D: BOATING ACTIVITY**

### **MARINAS**

-None-

### **OTHER PLACES WHERE BOATS ARE MOORED**

1. Lynnhaven Boat Ramp and Beach Facility, 3576 Piedmont Circle, Virginia Beach 23455. Owner: Owner City of Virginia Beach, Building 21 Municipal Center, Virginia beach 23451. Marine – public boat ramp. 4 employees. No slips or moorings. No vessels were present at the time of inspection. Boating services provided are an in-out ramp. On-shore sanitary facilities provided are 2 commodes, 2 urinals and 2 lavatories for men; and 4 commodes and 2 lavatories for women. There are 5 communal out door showers provided. 2 portable toilets are also provided on the property. Sewage disposal is to *Hampton Roads Sanitation District* (HRSD). Solid waste containers are provided. There are no boat holding tank pump-out or dump stations provided at this location.

### **UNDER SURVEILLANCE**

-None-

## **SECTION E: CONTRIBUTES ANIMAL POLLUTION**

-None-

## SUMMARY

Area # 070  
Lynnhaven Bay  
30 July 2007

### SECTION B: SEWAGE POLLUTION SOURCES

#### 1. SEWAGE TREATMENT WORKS

0 – DIRECT – None  
0 – INDIRECT – None  
0 – B.1. TOTAL

#### 2. ON-SITE SEWAGE DEFICIENCIES

0 – CONTRIBUTES POLLUTION, DIRECT – None  
0 – CONTRIBUTES POLLUTION, INDIRECT – None  
0 – CP (Kitchen or Laundry Wastes), DIRECT – None  
0 – CP (Kitchen or Laundry Wastes), INDIRECT – None  
0 – NO FACILITIES, DIRECT – None  
0 – NO FACILITIES, INDIRECT – None  
0 – B.2. TOTAL

#### 3. POTENTIAL POLLUTION

0 – POTENTIAL POLLUTION – None

### SECTION C: NON-SEWAGE WASTE SITES

#### 1. INDUSTRIAL WASTE SITES

0 – DIRECT – None  
0 – INDIRECT – None  
0 – C.1. TOTAL

#### 2. SOLID WASTE DUMPSITES

0 - DIRECT - None  
0 - INDIRECT - None  
0 - C.2. TOTAL

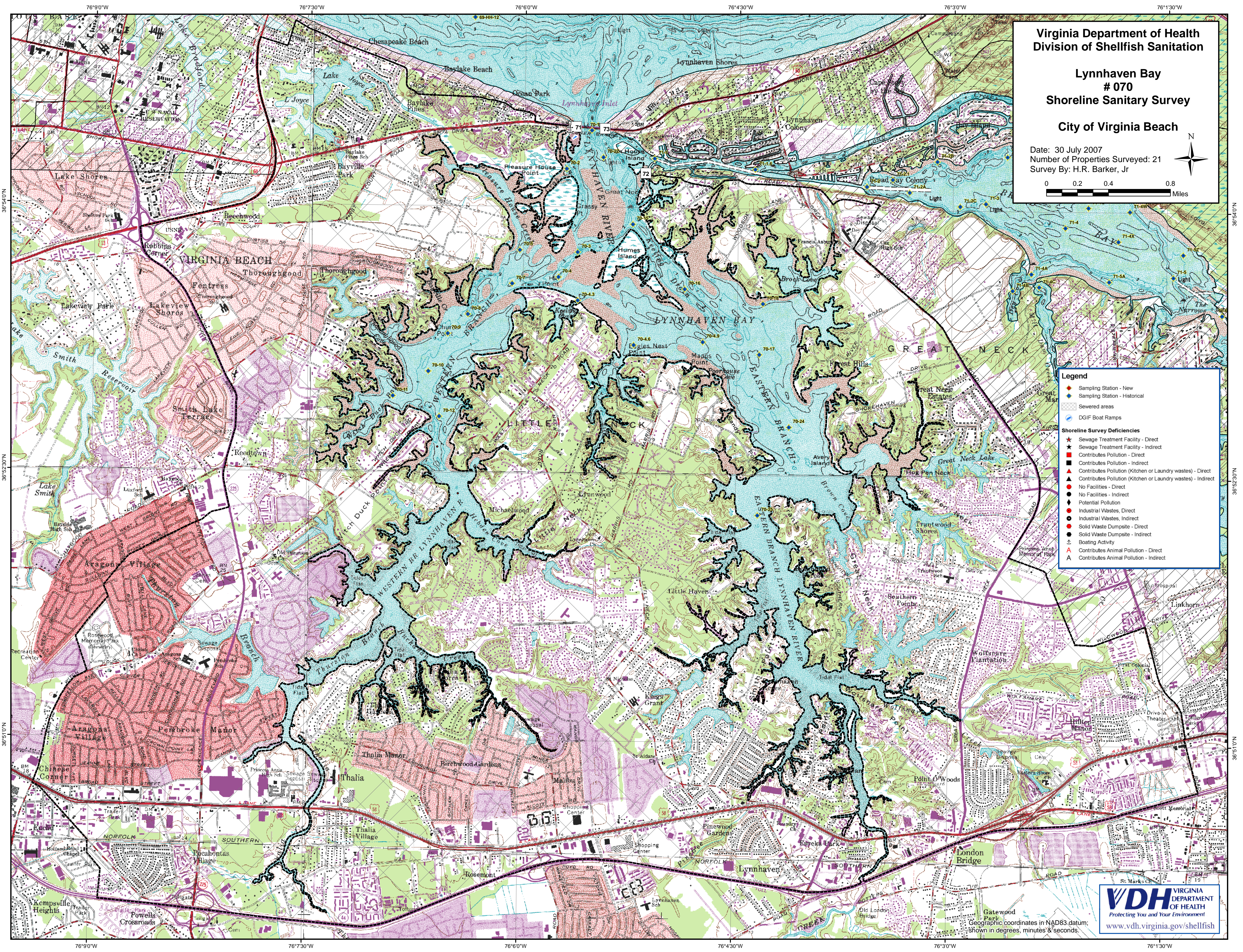
### SECTION D: BOATING ACTIVITY

0 – MARINAS – None  
1 – OTHER PLACES WHERE BOATS ARE MOORED – # 1  
0 – UNDER SURVEILLANCE – None  
1 – D. TOTAL

### SECTION E: CONTRIBUTES ANIMAL POLLUTION

0 – DIRECT – None  
0 – INDIRECT – None  
0 – E. TOTAL





**Virginia Department of Health**  
**Division of Shellfish Sanitation**

**Lynnhaven Bay**  
**# 070**  
**Shoreline Sanitary Survey**

**City of Virginia Beach**

Date: 30 July 2007  
Number of Properties Surveyed: 21  
Survey By: H.R. Barker, Jr

0 0.2 0.4 0.8 Miles

N

**Legend**

- Sampling Station - New
- Sampling Station - Historical
- Sewered areas
- DGIF Boat Ramps

**Shoreline Survey Deficiencies**

- Sewage Treatment Facility - Direct
- Sewage Treatment Facility - Indirect
- Contributes Pollution - Direct
- Contributes Pollution - Indirect
- Contributes Pollution (Kitchen or Laundry wastes) - Direct
- Contributes Pollution (Kitchen or Laundry wastes) - Indirect
- No Facilities - Direct
- No Facilities - Indirect
- Potential Pollution
- Industrial Wastes, Direct
- Industrial Wastes, Indirect
- Solid Waste Dumpsite - Direct
- Solid Waste Dumpsite - Indirect
- Boating Activity
- Contributes Animal Pollution - Direct
- Contributes Animal Pollution - Indirect

**VDH** VIRGINIA DEPARTMENT OF HEALTH  
Protecting You and Your Environment  
[www.vdh.virginia.gov/shellfish](http://www.vdh.virginia.gov/shellfish)

Geographic coordinates in NAD83 datum, shown in degrees, minutes & seconds.